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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/505,479	08/23/2004	Yorio Takahashi	YMOR:338	3630
27890 7	590 01/12/2006		EXAMINER	
STEPTOE & JOHNSON LLP			LAMB, CHRISTOPHER RAY	
1330 CONNECTICUT AVENUE, N.W. WASHINGTON, DC 20036			ART UNIT	PAPER NUMBER
			2656	
			DATE MAILED: 01/12/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

	T 2	1
	Application No.	Applicant(s)
	10/505,479	TAKAHASHI, YORIO
Office Action Summary	Examiner	Art Unit
	Christopher R. Lamb	2656
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the	correspondence address
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING D Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication If NO period for reply is specified above, the maximum statutory period or - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATIO 36(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	N. mely filed n the mailing date of this communication. ED (35 U.S.C. § 133).
Status		
1) Responsive to communication(s) filed on <u>02 D</u>	ecember 2005.	
2a) ☐ This action is FINAL . 2b) ☑ This	s action is non-final.	
3) Since this application is in condition for allowa	nce except for formal matters, pr	osecution as to the merits is
closed in accordance with the practice under E	Ex parte Quayle, 1935 C.D. 11, 4	53 O.G. 213.
Disposition of Claims		
4) ☐ Claim(s) 1-10 is/are pending in the application 4a) Of the above claim(s) is/are withdray 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-10 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/o	wn from consideration.	
Application Papers		
9)☑ The specification is objected to by the Examine 10)☑ The drawing(s) filed on 23 August 2004 is/are: Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11)☐ The oath or declaration is objected to by the Ex	a) accepted or b) ⊠ objected drawing(s) be held in abeyance. Se tion is required if the drawing(s) is ob	e 37 CFR 1.85(a). ojected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Bureau * See the attached detailed Office action for a list	is have been received. Is have been received in Applicate rity documents have been received in CPCT Rule 17.2(a)).	ion No ed in this National Stage
Attachment(s)		
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date <u>8/23/04</u>. 	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:	

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DETAILED ACTION

Drawings

1. Figure 9 should be designated by a legend such as --Prior Art-- because only that which is old is illustrated. See MPEP § 608.02(g). Corrected drawings in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Specification

- 2. The disclosure is objected to because of the following informalities:
 - a. The specification refers to equations 25, 27, 30, 32, 33, 38, and 39. These are of the form "DAT1 [1]~DAT1 [12]." These equations are not understandable.
 - b. The word "nonoperational" is used throughout the specifications. This word is usually written "non-operational."

Appropriate correction is required.

Claim Objections

- 3. Claims 1-2 and 6-7 objected to because of the following informalities:
 - a. In claim 1, line 7, the phrase "for the information disk" is not correct because the rotational position information is not used by the information disk. It

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should probably read "about the information disk." (Likewise for claims 2, 6, and 7.)

- b. In claim 1, lines 7-8, the phrase "information disk of the disk rotating unit" lacks antecedent basis because the information disk was not claimed as part of the disk rotating unit. It should probably read "information disk *rotated by* the disk rotating unit." (Likewise for claim 2.)
- c. The phrase "while making the radius driving unit nonoperational" should probably be replaced by the phrase "while not operating the radius driving unit."

Claim Rejections - 35 USC § 112

4. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

5. Claims 1-10 rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention.

In claim 1 (page 2, lines 15-16), the counted values are compared with a "predetermined threshold value." This value is required to use the invention. The specification does not describe how the "predetermined threshold value" is determined.

6. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

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7. Claims 1-10 rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

a. Regarding claims 1-10:

The use of "..." throughout all the claims makes the claims indefinite and vague.

b. Regarding claims 1 and 6:

The phrase "in each area provided by dividing one rotation into m (m is a natural number equal to or larger than 2)" is not understandable because it is not clear what the areas are, or how a rotation can be divided into parts.

c. Regarding claims 2 and 7:

The phrase "in each area provided by dividing one rotation into n (n is a natural number equal to or larger than 2)" is not understandable because it is not clear what the areas are, or how a rotation can be divided into parts. Likewise the phrase "which further divides into k (k is a natural number equal to or larger than 1) the area having been provided by dividing one rotation into n for the rotational position information from the rotational position output unit" is also unclear.

d. Regarding claims 1-2 and 6-10:

The phrase "and compares a difference between the first counted value and the second, third, ... counted values with a predetermined threshold value so as to determine a maximum rotational speed of the information disk while using, as a vibration detection value, a value proportionate to a sum of absolute values of counted

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values obtained in the areas divided into m" is vague because it is not clear how to use a value as a vibration detection value.

It is the examiner's understanding from the specification that the device compares the vibration detection value to a predetermined threshold value (as in page 35, lines 6-9). The claim, however, seems to state that the device compares the counted values to the predetermined threshold value "while using" the vibration detection value, which is not the same thing.

- e. Regarding claims 3-5 and 8-10:
 - i. The phrase:

"a difference between the counted value at the first rotational speed and the counted value at each of the second, third ... rotational speeds" (lines 3-5 of claims 3-5, lines 4-6 of claims 8-10) is vague because it is not clear if it is the difference between the value at the first speed and the value at the second speed or the difference between the value at the first speed and the value at a third speed, or some higher speed.

ii. The equation claimed in each of these claims,

is vague and indefinite. It does not appear to be an equation.

8. The scope of the claims cannot be determined because of the rejections under 35 U.S.C. 112, first paragraph, and 35 U.S.C. second paragraph. Therefore no art has been applied to the claims in this office action.

Conclusion

9. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Kanda et al. (U.S. Patent 6,304,528), Fukuda (U.S. Patent 6,711,109), Fukuda et al. (U.S. Patent 6,351,440), Ota et al. (U.S. Patent 6,009,053), Kishinami et al. (U.S. Patent 6,118,739).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Christopher R. Lamb whose telephone number is (572) 272-5264. The examiner can normally be reached on 8:30 AM to 6:00 PM Monday through Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hoa Nguyen can be reached on (571) 272-7579. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

CRL 1/5/06

SUPERVISORY PATENT EXAMINER

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